



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

MAR 03 2016

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Article Number: 7015 3010 0001 6837 7012

Honorable Mayor Francis Womack III
Township of North Brunswick
710 Hermann Road
North Brunswick, NJ 08902

**Re: Request for Information
Docket No. CWA-IR-16-010
EPA Sanitary Sewer System Compliance Evaluation Inspection, September 24, 2015
Township of North Brunswick
ICIS/NPDES No. NJP002554**

Honorable Mayor Womack:

Please find enclosed a Request for Information ("RFI") letter, which the U.S. Environmental Protection Agency ("EPA") Region 2 is issuing to the Township of North Brunswick ("North Brunswick") pursuant to Section 308(a) of the Clean Water Act ("CWA"), 33 U.S.C. §1318(a). The EPA is issuing the RFI letter to require North Brunswick to provide specific information regarding the findings of the enclosed inspection report.

Section 308(a) of the CWA, 33 U.S.C. §1318(a), provides that whenever it is necessary to carry out the objectives of the CWA, including determining whether or not a person/agency is in violation of Section 301 of the CWA, 33 U.S.C. §1311 or carrying out section 402 of the CWA, 33 U.S.C. §1342, the EPA shall require the submission of any information reasonably necessary to make such a determination. Under the authority of Section 308 of the Clean Water Act, EPA may require the submission of information necessary to assess any facility/site and its related appurtenances for carrying out the provisions of the CWA.

On September 24, 2015 EPA conducted a Sanitary Sewer System Inspection of the North Brunswick Sanitary Collection System. The enclosed inspection report lists potential non-compliance items as well as areas of concern (areas of concern are items that should be addressed to improve the operation and maintenance of the collection system). Additionally, the Middlesex County Utilities Authority ("MCUA") wastewater treatment plant ("WWTP"), which North Brunswick discharges to, has had exceedances of its New Jersey Pollutant Discharge Elimination System ("NPDES") Permit and wet weather bypassing related to high wastewater flows during periods of wet weather. Based on a review of MCUA metering chamber data, North Brunswick's flows to MCUA contains excessive inflow during wet weather.

REQUEST FOR INFORMATION

North Brunswick is hereby required, pursuant to Section 308(a) of the Clean Water Act, 33 U.S.C. §1318(a), to submit the requested information regarding the subject construction site.

Within forty-five (45) calendar days of receipt of this RFI please submit:

1. in writing with the actions (including a schedule) that North Brunswick has taken or will take to address: the potential non-compliance items and areas of concern identified in the enclosed inspection report;
2. a list of addresses and dollar amounts that were paid to residents/businesses as a result of claims due to North Brunswick's sanitary sewer backups for the period January 2012 to present;
3. North Brunswick's most recent Infiltration/Inflow ("I&I") Reduction Program, if one is required by MCUA, and/or existing plans, cost estimate and schedules for North Brunswick's I&I Reduction Program.
4. Specific targets for the volume of I&I removal per year. The 4 most recent Infiltration/Inflow Reduction Program Reports that were sent to MCUA (if North Brunswick is required to send them);
5. Plans for increased collection system cleaning/maintenance in order to achieve North Brunswick's planned 5 year sewer system cleaning cycle.
6. Records for any Sanitary Sewer Overflows that flowed into receiving waters or into separate storm sewer system catch basins for the period January 2011 to the present.

CERTIFICATION

Any documents to be submitted by North Brunswick as part of this Request for Information shall be sent by certified mail or its equivalent and shall be signed by an authorized representative of the respective entity (see 40 CFR §122.22), and shall include the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

All information required to be submitted pursuant to this RFI shall be sent by certified mail or its equivalent to the following addresses:

Larry Gaugler, NPDES Team Leader
Water Compliance Branch
Division of Enforcement and Compliance Assistance
U.S. Environmental Protection Agency – Region 2
290 Broadway, 20th Floor
New York, NY 10007-1866

Marcedius T. Jameson, Director
Water and Land Use Enforcement
New Jersey Department of Environmental Protection
Mail Code 401-04F, 401 East State Street
P.O. Box 420
Trenton, NJ 08625-0420

Should you have any questions regarding this request, feel free to have your staff contact Larry Gaugler, NPDES Team Leader at (212) 637-3950.

Sincerely,

A handwritten signature in blue ink, appearing to read "D. McKenna", with a long horizontal flourish extending to the right.

Douglas McKenna, Chief
Water Compliance Branch
Division of Enforcement and Compliance Assistance

Enclosure

cc: Marcedius T. Jameson, Director, Water and Land Use Enforcement, NJDEP
Melissa Hornsby, NJDEP via email Melissa.Hornsby@dep.state.nj.us
Christopher Gianotto via email, cgianotto@northbrunswicknj.gov
Geoffrey Pritchard via email Geoffrey.Pritchard@dep.nj.gov



United States Environmental Protection Agency
Washington, D.C. 20460
Water Compliance Inspection Report

Form Approved.
OMB No. 2040-0057

Section A: National Data System Coding (i.e., PCS)

Transaction Code	NPDES	yr/mo/day	Inspection Type	Inspector	Fac Type
N	N J P 0 0 2 5 5 4	1 5 0 9 2 4 17	18 &	19	20 1
Remarks					
2					
Inspection Work Days Facility Self-Monitoring Evaluation Rating B1 QA -----Reserved-----					
6 1 69 70 71 72 73 74 7 80					

Section B: Facility Data

Name and Location of Facility Inspected (for industrial users discharging to POTW, also include POTW name and NPDES permit number)	Entry Time/Date	Permit Effective Date
North Brunswick Township, Sanitary Sewer System, 710 Hermann Road, North Brunswick, NJ 08902	9/24/15	No Permit
	Exit Time/Date	Permit Expiration Date
		No Permit
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)	Other Facility Data	
Douglas G. Robertson,, CPWM, CRP, Superintendent of Public Works, 732 297-1134 (ph) 732 297-9135 Steve Bloyed, Sewer Repairs Supervisor, Sewer Repairs Chris – Supervisor Sewer Maintenance		
Name, Address of Responsible Official/Title/Phone and Fax Number(s)		
Douglas G. Robertson, Superintendent Public Works,		
	Contacted	
	x Yes No	

Section C: Areas Evaluated During Inspection (Check only those areas evaluated)

Permit	Flow Measurement	x	Operations & Maintenance	x	CSO/SSO (Sewer Overflow)
x	Records/Reports		Sludge Handling/Disposal		Pollution Prevention
	Facility Site Review		Pretreatment		Multimedia
	Effluent/Receiving Water		Storm Water		Other:

Section D: Summary of Findings/Comments (Attach additional sheets of narrative and checklists as necessary)

See attached compliance evaluation inspection report for inspection findings.

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Phone and Fax Numbers	Date
 Murray Lantner, P.E.	EPA/DECA-WCB/(212) 637-3976 FAX: 3953	2/29/16
Signature of Management Q/A Reviewer	Agency/Office/Phone and Fax Numbers	Date
 Larry Gaugler, P.E. Chief NPDES Team	EPA/DECA/WCB (212) 637-3950, Fax 212 637-3953	3/1/16

INSTRUCTIONS

Section A: National Data System Coding (i.e., PCS)

Column 1: Transaction Code: Use N, C, or D for New, Change, or Delete. All inspections will be *new* unless there is an error in the data entered.

Columns 3-11: NPDES Permit No. Enter the facility's NPDES permit number - third character in permit number indicates permit type for U=unpermitted, C=general permit, etc. (Use the Remarks columns to record the State permit number, if necessary.)

Columns 12-17: Inspection Date. Insert the date entry was made into the facility. Use the year/month/day format (e.g., 04/01/01 = October 01, 2004).

Column 18: Inspection Type*. Use one of the codes listed below to describe the type of inspection:

A Performance Audit	U IU Inspection with Pretreatment Audit	I Pretreatment Compliance (Oversight)
B Compliance Biomonitoring	X Toxics Inspection	@ Follow-up (enforcement)
C Compliance Evaluation (non-sampling)	Z Sludge - Biosolids	{ Storm Water-Construction-Sampling
D Diagnostic	# Combined Sewer Overflow-Sampling	{ Storm Water-Construction-Non-Sampling
F Pretreatment (Follow-up)	\$ Combined Sewer Overflow Non Sampling	: Storm Water-Non-Construction-Sampling
G Pretreatment (Audit)	+ Sanitary Sewer Overflow Sampling	- Storm Water-Non-Construction-Non-Sampling
I Industrial User (IU) Inspection	& Sanitary Sewer Overflow-Non-Sampling	< Storm Water-MS4-Sampling
J Complaints	! CAFO-Sampling	- Storm Water-MS4-Non-Sampling
M Multimedia	= CAFO-Non-Sampling	> Storm Water-MS4-Audit
N Spill	2 IU Sampling Inspection	
O Compliance Evaluation (Oversight)	3 IU Non-Sampling Inspection	
P Pretreatment Compliance Inspection	4 IU Toxics Inspection	
R Reconnaissance	5 IU Sampling Inspection with Pretreatment	
S Compliance Sampling	6 IU Non-Sampling Inspection with Pretreatment	
	7 IU Toxics with Pretreatment	

Column 19: Inspector Code. Use one of the codes listed below to describe the lead agency in the inspection.

A — State (Contractor)	O — Other Inspectors, Federal/EPA (Specify in Remarks columns)
B — EPA (Contractor)	P — Other Inspectors, State (Specify in Remarks columns)
E — Corps of Engineers	R — EPA Regional Inspector
J — Joint EPA/State Inspectors—EPA Lead	S — State Inspector
L — Local Health Department (State)	T — Joint State/EPA Inspectors—State lead
N — NEIC Inspectors	

Column 20: Facility Type. Use one of the codes below to describe the facility.

- 1 — Municipal Publicly Owned Treatment Works (POTWs) with 1987 Standard Industrial Code (SIC) 4852
- 2 — Industrial Other than municipal, agricultural and Federal facilities.
- 3 — Agricultural Facilities classified with 1987 SIC 0111 to 0971
- 4 — Federal Facilities identified as Federal by the EPA Regional Office
- 5 — Oil & Gas Facilities classified with 1987 SIC 1311 to 1389

Columns 21-66: Remarks. These columns are reserved for remarks at the discretion of the Region.

Columns 67-69: Inspection Work Days. Estimate the total work effort (to the nearest 0.1 work day), up to 99.9 days, that were used to complete the inspection and submit a QA reviewed report of findings. This estimate includes the accumulative effort of all participating inspectors, any effort for laboratory analyses, testing, and remote sensing; and the billed payroll time for travel and pre and post inspection preparation. This estimate does not require detailed documentation.

Column 70: Facility Evaluation Rating. Use information gathered during the inspection (regardless of inspection type) to evaluate the quality of the facility self-monitoring program. Grade the program using a scale of 1 to 5 with a score of 5 being used for very reliable self-monitoring programs, 3 being satisfactory, and 1 being used for very unreliable programs.

Column 71: Biomonitoring Information. Enter D for static testing. Enter F for flow through testing. Enter N for no biomonitoring.

Column 72: Quality Assurance Data Inspection. Enter Q if the inspection was conducted as followup on quality assurance sample results. Enter N otherwise.

Columns 73-80: These columns are reserved for regionally defined information.

Section B: Facility Data

This section is self-explanatory except for "Other Facility Data," which may include new information not in the permit or PCS (e.g., new outfalls, names of receiving waters, new ownership, other updates to the record, SIGNAICS Codes, Latitude/Longitude)

Section C: Areas Evaluated During Inspection

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 2, DECA-WCB

20th Floor, 290 Broadway, NY, NY 10007

SANITARY SEWER SYSTEM COMPLIANCE EVALUATION INSPECTION REPORT

Compliance Evaluation Inspection: North Brunswick Township NJDEP Program Interest ID No. Sanitary System NJDEP MS4 PID No. EPA ICIS No. NJP002554 Satellite Sanitary System of the Middlesex County Utilities Authority ("MCUA") Wastewater Treatment Plant (NJPDES Permit No. NJ0020141)
Inspection Date: September 24, 2015
EPA Inspector: Murray Lantner, P.E. Environmental Engineer, EPA Region 2, DECA-WCB (212) 637-3976
On-Site Representatives: Steve Bloyed, Sewer Repairs Supervisor, Sewer Repairs Chris Gianotto – Supervisor Sewer Maintenance Doug Robertson Superintendent of Public Works.
Site Information: Doug Robertson Superintendent of Public Works
Precipitation Information: http://www.njweather.org – New Brunswick Precipitation 0.00" on Sept. 21, 22, 23 and 24, 2015

I. Introduction

EPA conducted a Sanitary Sewer System ("SSS") Compliance Evaluation Inspection ("CEI") on September 24, 2015 of the North Brunswick Township SSS. North Brunswick's system collects sanitary wastewater mainly within North Brunswick and transmits to New Brunswick's SSS. North Brunswick's flow first goes through a Middlesex County Utilities Authority's ("MCUA") metering chamber to New Brunswick and then into the sewer system tributary to the MCUA Wastewater Treatment Plant (NJPDES Permit No. NJ0020141). The Mile Run interceptor is shared with New Brunswick, from Georges Road.

1. The North Brunswick SSS contains 126 miles of gravity sewers and 7.5 miles of force main and is a 100% separate sewer system. The SSS has 7 pump stations. 1981 is the oldest, Howe Lane PS (Can Station) Said that they have done a lot of work since 2006. Princes Drive put in a Bypass Chamber, Edleys Lane Bypass Chamber. System was generally built in the 1950s with clay pipe, PVC, ACP, and RCP and diameters run 8" 10", 12", 15", 24" and 36".

2. North Brunswick representatives said that all pump stations have permanent emergency generators) Diesel (5) and Natural Gas (2)). Alarm systems for pump stations through Mission communications - low level, high level, pump failure, generator run, faults, seal failure, temperature. Alarms sent to Chris's phone, Steve's phone and goes thru all 4 of the crew.
3. Flow is monitored at Schmidt Lane, and Princess Drive, Edleys, West Lawrence pump stations
4. Said that they have GIS maps of the system in map books.
5. Sewer billing based on water use. Charge \$37.98 per 1,000 linear feet up to 1,200 cu feet. American Water does the billing.
6. North Brunswick representatives said that they had a force main break in 2014, but only caused a discharge to a PSEG easement, not to a waterway. They said that they received a spill number. North Brunswick staff indicated that they did not have any Sanitary Sewer Overflows that caused a discharge within 5 years. They said that there were no SSOs during Hurricane Irene and Hurricane Sandy. They did have problems during a 2007 storm event.
7. North Brunswick owns the sewer main and the property owner owns the lateral. But North Brunswick generally takes care of the lateral in the street, but inside curb line will be the owner's responsibility.
8. As shown in photo 3095, North Brunswick has a simple SOP for responding to and reporting sanitary sewer overflow or spills. North Brunswick does not have procedure for cleanup. North Brunswick in the past had a list of cleanup providers. They also advise the resident to use bleach for disinfection of the sanitary wastewater.
9. North Brunswick said that they have a list of low flow areas and places where manhole is power washed. They said that they try to eliminate problem areas through their contracts. Their plan is to have a 5 year cleaning program. But do not have records of this.
10. EPA Requested 2 years of collection system monthly reports. North Brunswick provided 7 months of collection system monthly reports February, April, July, Sept., Oct. Nov. 2014 and January 2015 and summary statistics from January to June 2015
11. Known trouble spots - North Brunswick representatives reported that they had one on Kearney and added a degreaser. Georges Road said they put in Jet Foam. Had restaurant adding bugs to digest grease.
12. Routine Maintenance have 15 spots checked per month, where they hose down. (See Photo 3097).

13. Sewer backups were said to be entered into their Cartograph system, but since it is difficult to pull reports from this system, North Brunswick said that they would enter the backups into a spreadsheet to be able to better keep track of any problem locations.
14. North Brunswick has an emergency contract with Fecher/Kramer.
15. North Brunswick representatives said that they have a connection with South Brunswick and currently send flow from a housing development in North Brunswick to South Brunswick. Sometimes, however, if there is a problem south Brunswick could send flow to North Brunswick
16. North Brunswick representatives said that they have 86 outfalls from their Municipal Separate Storm Sewer System ("MS4") and that they have an Illicit Discharge Detection and Elimination Program.

II. Summary of Potential Noncompliance and Areas of Concern

A. Areas of Concern:

1. North Brunswick said that they had a Fats Oil and Grease ("FOG") Program in 2009 that ran for about 2 years, lately they have not had someone doing much FOG work. What is the status of North Brunswick's FOG Program?
2. North Brunswick said that in 2014 they cleaned 16,050 feet of sewer and they said that there were 18 Main Blockages, 32 Lateral Blockages. North Brunswick provided EPA with collection system monthly reports for February, April, July, September, October, November 2014 (It also provided a file entitled June 2014, but in the file it said it was for July 2014 and it was identical to the July 2014 report, so this report was not counted). Based on the 6 months of records provided in 2014 and 2015 (summarized below) North Brunswick cleans and televises less than 3% of its collection system each year. North Brunswick has a goal to clean 20% of its sanitary sewer system each year and is well below its stated goals. Please evaluate North Brunswick's if the Township's current staffing levels are adequate to properly operate and maintain the sanitary sewer system given that the sewer crew is also responsible to do utility line markouts and pump station rounds in addition to the sewer cleaning work.

North Brunswick from Collection System Monthly Reports

North Brunswick - From Summary Statistics Table

2014	FT of Sewer Cleaned	FT of Sewer Televised	Main Blockage	Lateral Blockage	2015	FT of Sewer Cleaned	FT of Sewer Televised	Main Blockage	Lateral Blockage
January					January	2500	1800	2	4
February	3500	3500	2	4	February	2300	2650	1	2
March					March	1500	0	1	3
April	3500	3500	1	2	April	2200	0	0	1

May						May	4200	0	1	3
June						June	5750	5750	2	1
July	4500	3200	1	2		July				
August						August				
September	1350	0	1	3		September				
October	2950	2500	2	4		October				
November	3850	3850	0	2		November				
December						December				
Total	19,650	16,550	7	17			18,450	10,200	7	14
Total in Miles	3.72	3.13					3.49	1.93		
Percent of 126 miles of Gravity System	2.95%	2.49%					2.77%	1.53%		

3. EPA Requested 2 years of collection system monthly reports. North Brunswick provided 8 months of collection system monthly reports February, April, July, Sept., Oct. Nov. 2014 and January 2015 and summary statistics from January to June 2015. Please provide Collection System Reports for the missing months in 2014 (Jan. Mar., May, June, Aug. and Dec.) as well as July 2015 to Dec. 2015.
4. The summary statistics and the monthly report for January 2015 do not match. The Summary Statistics report that 2500' of sewers were cleaned and 1800' of sewers televised, while the monthly report states that 0' of sewers were cleaned and televised. Please indicate why there are different numbers in the summary statistics versus the monthly reports.
5. As shown in Table in Attachment 2 for the period 2011 to 2014 wet weather flows during the wettest period of the year compared to the driest increased approximately 5 times, a sign of significant wet weather Inflow and Infiltration ("I&I"). Please provide North Brunswick's I&I Reduction Plan, if it has submitted one to MCUA.
6. Section 5(I) of typical Participant Supplemental Agreements with MCUA states, "Infiltration/Inflow – Each Municipality and all public corporations discharging sewage into the Local Sewage System of a Municipality will maintain its Local Sewerage System in such a manner as to exclude any excessive infiltration and/or inflow from entering into the Local Sewerage System." As shown in the table in Attachment 2, several MCUA metering chambers that receive sanitary flows show a 2.5x increase (Flow difference 150% or greater than dry weather flows) in wet weather flows. North Brunswick must include measures in its MCUA I&I reduction plan to eliminate excessive I&I from its sanitary system (if such a plan is required by MCUA). Also please note that MCUA's CSO Permit, described below, will require MCUA to implement MCUA to control excessive I&I in its satellite systems.

7. Part IV.F.1.h of MCUA's NJPDES Permit NJ0020141 which took effect on July 1, 2015 requires that the permittee (MCUA) shall review its rules, ordinances, and/or its sewer use agreements and create an anticipated schedule to revise them within 6 months of the Effective Date of the Permit (EDP) if necessary. In general, this schedule shall not extend beyond the due date for the LTCP as per Part IV.D.3.b.iv of the Permit. This schedule shall require the customer municipalities to:
 - i. operate and maintain their treatment works,
 - ii. identify I/I and reduce it to meet the definition of non-excessive infiltration (in combined and separately sewered areas) and non-excessive inflow (in separately sewered areas) where both terms are defined in N.J.A.C. 7:14A-1.2, and
 - iii. identify and eliminate interconnections and cross-connections in storm sewers.
8. "Nonexcessive infiltration" means the quantity of flow which is less than 120 gallons per capita per day (domestic base flow and infiltration) or the quantity of infiltration which cannot be economically and effectively eliminated from a sewer system as determined in a cost-effectiveness analysis. For domestic treatment works receiving wastewater from combined sewers, nonexcessive infiltration means the quantity of flow attributable to infiltration during dry weather shall be less than 40 gallons per capita per day (gpcd) or 1,500 gallons per day per inch diameter per mile of sewer.
9. "Nonexcessive inflow" means the maximum total flow rate during storm events which does not result in chronic operational problems related to hydraulic overloading of the treatment works or which does not result in a total flow of more than 275 gallons per capita per day (domestic base flow plus infiltration plus inflow) during a significant rainfall event which causes surface ponding and surface runoff. Chronic operational problems may include surcharging, backups, bypasses, and overflows.
10. Based on the threshold of 275 gallons per capita per day (gpcd) and North Brunswick's population of 40,742, flows above 11,204,050 GPD exceed the non-excessive inflow threshold. As shown in Attachment 2, based upon data in MCUA's I&I reports for the period 2011 to 2014, during significant rainfall events, total flows in North Brunswick's separate sanitary sewer exceeded the 11,204,050 MGD threshold for non-excessive inflow in 2011 and 2013.
11. As shown in Attachment 3, EPA reviewed incident reports with the keyword sewage in NJDEP Data Miner for North Brunswick for the period January 1, 2011 to December 31, 2015 that identified reported incidents on 7/28/11, 8/28/11, 9/8/11 and 2/27/12. Please verify whether these reports are related to North Brunswick's Sanitary Sewer System and also if there have been any other sanitary sewer overflows or basement backups.
12. Based on the Field Visits the Following Areas of Concern were noted:
 - a. 482 Old Georges – sewer needs cleaning, sediment and debris seen in manhole and no bench;

- b. 458 Old Georges – Some grease in sewer. North Brunswick representatives said that they would jet the sewer.
- c. Edleys PS, Lights on 2nd floor down not working, and lights in basement need improving. Also the continuous flow monitoring was not working. North Brunswick is planning on replacing 2 of the 3 pumps at this station this year. What is status of the pump replacements at this station?
- d. Debris in manhole South Berkely and Garner (240 Garnder) (See Photo 3099)
- e. Debris in Manhole 1430-1450 Kearney – North Brunswick said that they did not conduct the monthly cleaning yet. (Photo 3100)
- f. 623 Georges dirt fell in manhole
- g. Georges and Elmwood - Epoxy on side of manhole peeling off;
- h. Pine (715 and 737) Street manhole near school and cemetery needs cleaning;
- i. W. Lawrence Pump Station - Buildup of rags in basket, needs cleaning, see Photos (Photos 3103 and 3104). North Brunswick said that they clean the wet well once every six months and that this station was due to be cleaned in approximately six months. West Lawrence pump station does not have a spare pump - during rain event need 2 pumps to run station. Recommend getting a spare pump in case a pump goes down.
- j. Schmidt PS Lots of Grease seen floating on wet well (Photos 3105 to 3107)

III. Field Work

EPA visited several points during the inspection. In addition to those listed in the Areas of Concern above, EPA visited the following locations and did not note any problems:

- a. Peppermint Road nad Old Georges Road
- b. 284 Garner downstream manhole
- c. 854 and 900 Nassau

IV. Closing Conference

A closing conference was held with North Brunswick representatives to discuss many of the findings that were identified during this inspection.

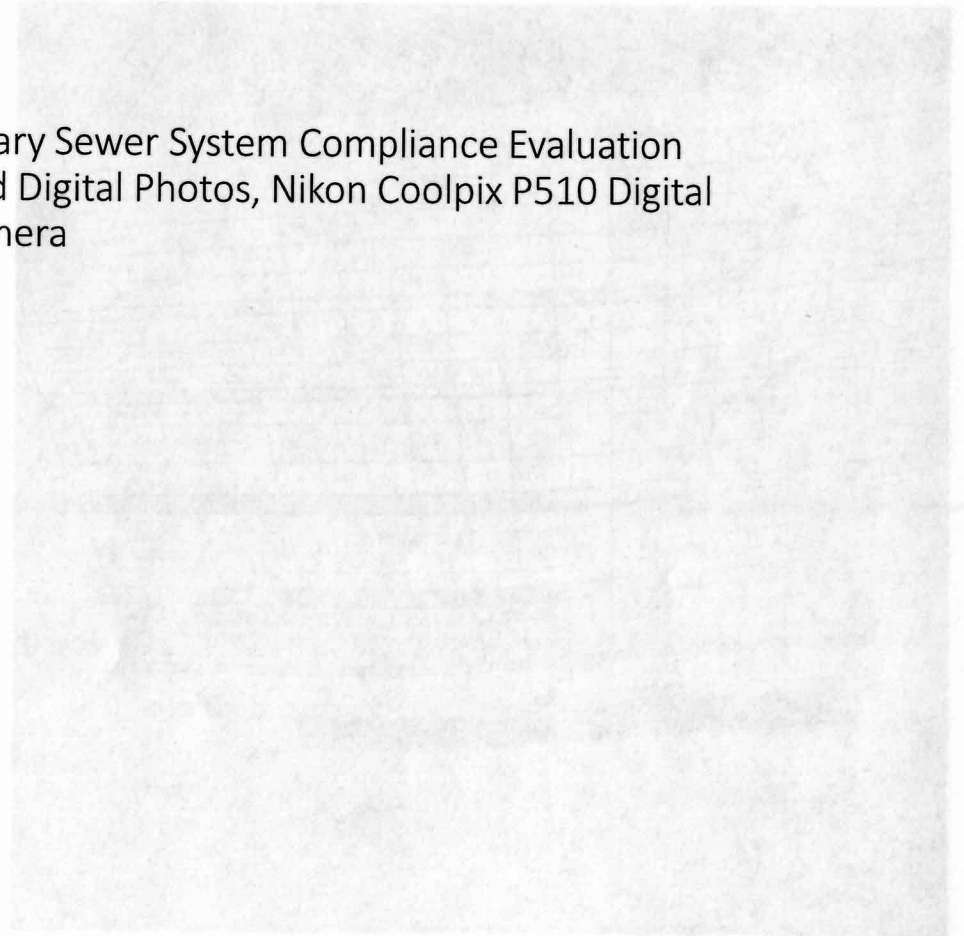
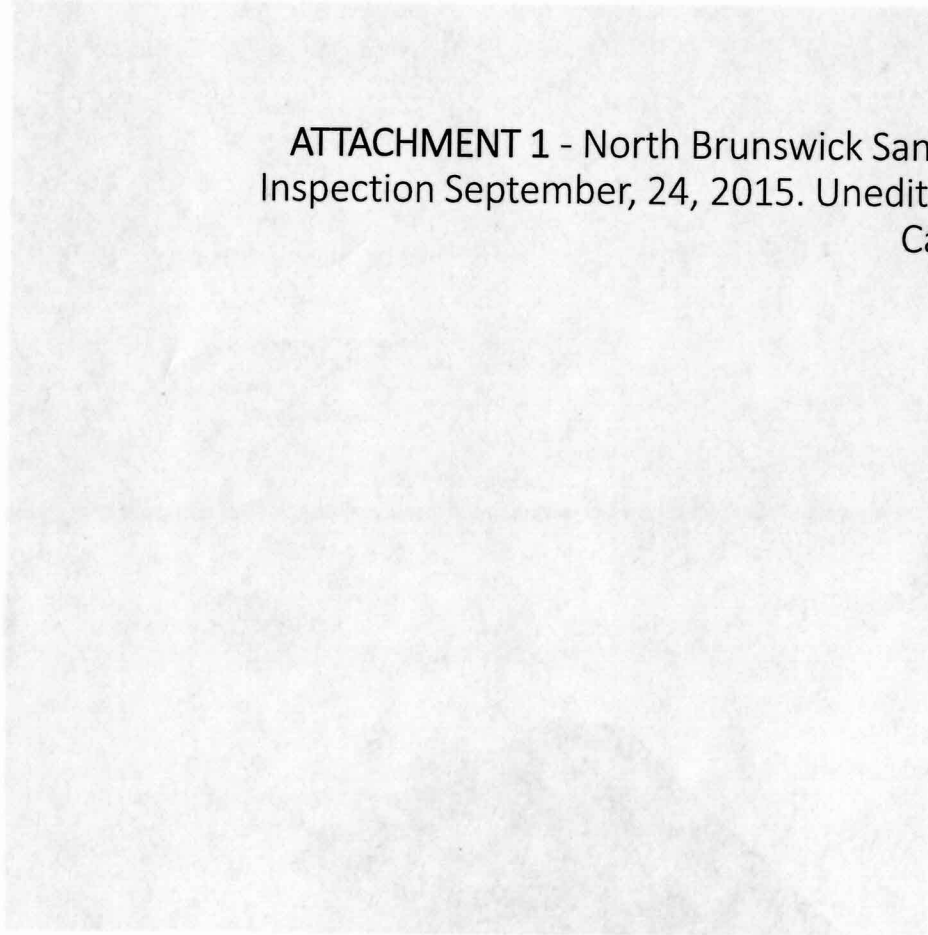
V. Attachments


- 1. EPA Photo Log and Photos
- 2. Table of MCUA Inflow and Infiltration calculations
- 3. Incident Reports from NJDEP Data Miner 1/1/2011 to 12/31/15 related to sewage

DSCN3032 -- 2015 09 24 10:00:00

DSCN3033 -- 2015 09 24 10:00:00

ATTACHMENT 1 - North Brunswick Sanitary Sewer System Compliance Evaluation
Inspection September, 24, 2015. Unedited Digital Photos, Nikon Coolpix P510 Digital
Camera





TOWNSHIP OF NORTH YORK
1400 SHEPPARD AVENUE EAST
 SUITE 100
 SCARBOROUGH, ONTARIO M1S 1T6
 TEL: (416) 497-3134
 FAX: (416) 497-3135
 WWW.NORTH-YORK.CA

SOP for responding to SSO

1. Respond to location
2. Determine the source
3. Once source is determined
4. Rectify situation
5. Call DEP at 1-877-6337

DSCN3095 – SOP for Responding to SSO

MAINTENANCE											
Category	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Lighting Maintenance	0	0	0	0	0	0	0	0	0	0	0
Building Maintenance	1	1	1	1	1	1	1	1	1	1	11
Manhole & Inlets Inspected	0	0	0	0	0	0	0	0	0	0	0
Insps. No. of Inlets Inspected	820	320	320	320	320	320	320	320	320	320	3200
Insps. Reported (7/10/10/10)	1000	2600	0	0	0	0	0	0	0	0	5700
Manhole Box Lids	2	1	1	0	1	0	1	1	2		10
Manhole Box Lids	4	2	3	1	3	1					18
S-Fr. Cleaning (Pre-Insps)	2500	2300	1500	2200	4700	5750					18450
Reporting Inspections	15	15	15	15	15	15	15	15	15	15	150
CALL-OUTS											
Call-Outs (S&S) (Regular Hours)	5	4	6	5	5	7	8				58
Off-Call-Outs (No Mark-Outs)	7	6	5	6	7	4					35
Pump Station Alarms	6	4	6	4	7	7					35
Total Mark-Outs	210	183		331	301	388					1413
Emergency Mark-Outs	48	46		39	35	32					200
OT Mark-Outs	5	4		3	4	6					22
Init. Insp. PASS	0	0	0	0	0	0	0				0
Init. Insp. FAIL	0	0	0	0	0	0	0				0
Re-Inspect. PASS	0	0	0	0	0	0	0				0
Re-Inspect. FAIL	0	0	0	0	0	0	0				0
Total Site Visits	0	0	0	0	0	0	0				0

DSCN3096 – Summary Statistics Jan to June 2015



DSCN3099 – Debris in Manhole at S. Berkley and Garner



DSCN3100 – 1430-1450 Kearney – Some Debris in Manhole



DSCN3101 – 699 Georges some foam and high flow in sewer due to West Lawrence Pump Statoin on and sending flow at this time.



DSCN3102



DSCN3103 – W. Lawrence Pump Station – Grease and Rags on floating on wet well and in influent basket



DSCN3104 –W. Lawrence Pump Station – Grease and Rags on floating on wet well and in influent basket

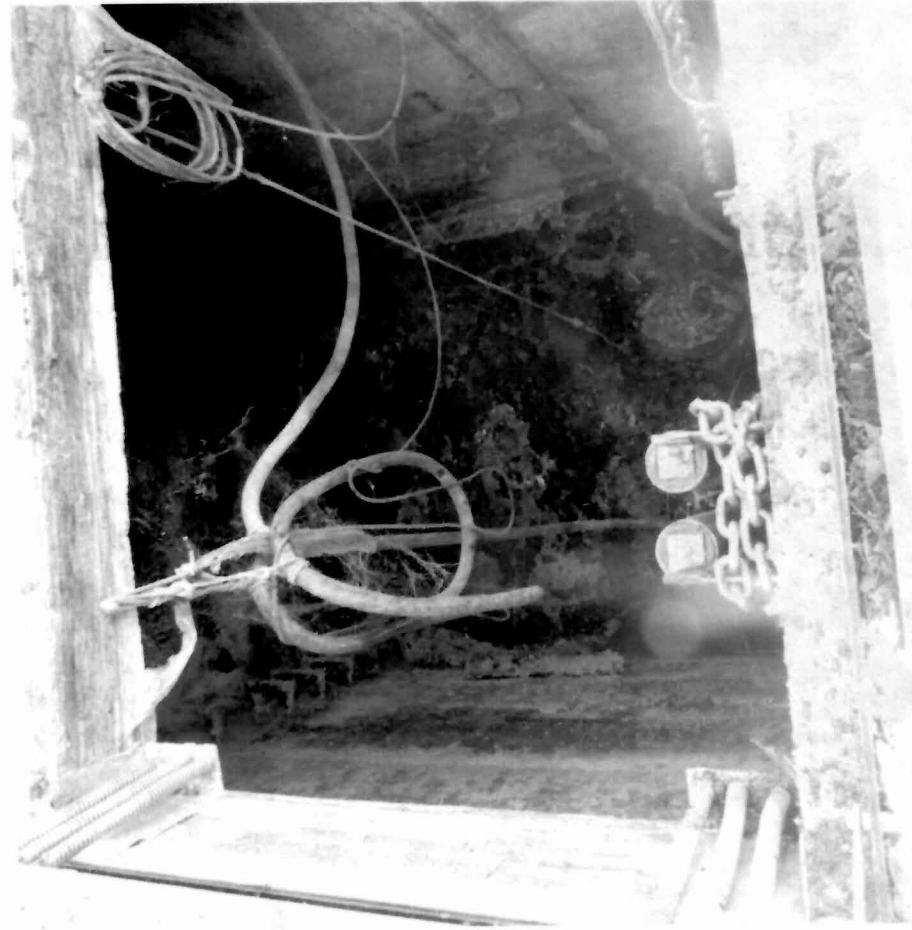


DSCN3107 - Schmidt Pump Station - Lots of Grease on Wet Well

DSCN3108 - Schmidt Pump Station - Lots of Grease on Wet Well

10/10/2010 10:10:10 AM





DSCN3105 – Schmidt Pump Station – Lots of Grease on Wet Well



DSCN3106 - Schmidt Pump Station – Lots of Grease on Wet Well

MCUA Connection Point	2011 Max Difference between wet and dry weather flows (MG)	2011 Max Percent Difference for those 150 % Greater (%)	2011 Dry Period	2012 Max Difference between wet and dry weather flows (MG)	2012 Max Percent Difference for those 150 % Greater (%)	2012 Dry Period	2013 Max Difference between wet and dry weather flows (MG)	2013 Max Percent Difference for those 150 % Greater (%)	2013 Dry Period	2014 Max Difference between wet and dry weather flows (MG)	2014 Max Percent Difference for those 150 % Greater (%)	2014 Dry Period
Georges Road	0.152	357	0.043	0.071	250	0.029	0.128	331	0.039	0.163	436	0.037
Livingston Ave.	0.512	1969	0.026	0.132	480	0.028	0.715	4024	0.018	0.516	1472	0.035
Remsen Ave.	4.456	431	1.034	1.997	184	1.083	4.655	546	0.583	4.507	445	1.012
Twelfth St.	10.091	364	2.769	3.874	130	2.976	11.197	467	2.397	6.650	286	2.328

Attachment 2 – MCUA Inflow and Infiltration Calculations for North Brunswick

ATTACHMENT 3 - Incident Reports for North Brunswick 1/1/11 to 12/31/15 from NJDEP Data Miner Related to Sewage http://datamine2.state.nj.us/DEP_OPRA/OpraMain/get_long_report?

Incident ID Number:	395685	Communications Center Number:	11-07-28-1100-50
Received Date:	7/28/2011		
Incident Description:	CALLER STATED MATERIAL ALONG BANKS OF WATER AND STRONG ODOR IN AREA		
Incident Type Program:	Water Quality		
Incident Type:	Sewage		
Follow-up Status:			
Program Interest Name:			
Program Interest ID:			
Most Recent Compliance Evaluation:	Most Recent Enforcement Action:		

Linked Incidents	Linked Incident Program	Linked Incident Type	Followup Status
395634	Communication Center	Sewage	Referred

Incident ID Number:	399770	Communications Center Number:	11-08-28-0354-05
Received Date:	8/28/2011		
Incident Description:	DUE TO WEATHER EVENT HEAVY RAIN RESULTS IN OVERFLOW OF MANHOLE.		
Incident Type Program:	Water Quality		
Incident Type:	Sewage		
Follow-up Status:			
Program Interest Name:			
Program Interest ID:			
Most Recent Compliance Evaluation:	Most Recent Enforcement Action:		

Linked Incidents	Linked Incident Program	Linked Incident Type	Followup Status
399650	Communication Center	Sewage	ER-Closed-Inv-no vio

Incident ID Number:	402143	Communications Center Number:	11-09-08-1007-22
Received Date:	9/8/2011		
Incident Description:	OVERFLOWING MANHOLE		
Incident Type Program:	Water Quality		
Incident Type:	Sewage		
Follow-up Status:			
Program Interest Name:			
Program Interest ID:			
Most Recent Compliance Evaluation:		Most Recent Enforcement Action:	

Linked Incidents	Linked Incident Program	Linked Incident Type	Followup Status
402004	Communication Center	Sewage	ER-Closed-Inv-no vio

Incident ID Number:	418223	Communications Center Number:	12-02-27-1217-40
Received Date:	2/27/2012		
Incident Description:	FORCE MAIN OVERFLOWING TO WOODED AREA. REPAIRS UNDERWAY		
Incident Type Program:	Water Quality		
Incident Type:	Sewage		
Follow-up Status:			
Program Interest Name:			
Program Interest ID:			
Most Recent Compliance Evaluation:		Most Recent Enforcement Action:	

Linked Incidents	Linked Incident Program	Linked Incident Type	Followup Status
418207	Communication Center	Sewage	ER-Closed-Inv-no vio

